

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#2

In re Application of

Robin U. Roberts et al.

Serial No.: 09/929,031

Filed: August 15, 2001

FOR: A SYSTEM AND METHOD FOR  
PERFORMING SOFT HANDOFF IN A  
WIRELESS DATA NETWORK

Group Art Unit: 2661

Examiner: Not Assigned

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**Technology Center 2600**

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

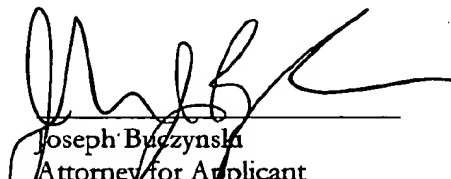
In accordance with 37 C.F.R. §§ 1.56 and 1.97-1.98, Applicants hereby transmit a copy of the documents listed in the attached Form PTO-1449, which may be deemed material to the examination of the above-identified application.

This document was cited in an International Search Report in the corresponding International Application. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(b) is required.

The Examiner is requested to consider the attached document in connection with the above-identified application and to return a copy of foreign PTO-1449 to the Applicants with the Examiner's initials in the spaces provided.

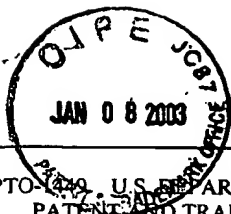
Submission of this Information Disclosure Statement does not constitute an admission by the Applicants as to the materiality of the attached documents to the application, nor do the Applicants waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate.

Respectfully submitted,

  
\_\_\_\_\_  
Joseph Buczynski  
Attorney for Applicant  
Reg. No. 35,084

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Dated: May 8, 2003



Form PTO-449, U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 41744		SERIAL NO. 09/929,031		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Robin U. Roberts et al.		GROUP 2661		
FILING DATE August 15, 2001						
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS SUB CLASS	FILING DATE IF APPROPRIATE
B.P.		5 9 5 8 0 1 8	09/1999	Eng et al.		
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)						
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

Brenda A. Pham

9/26/05



41744

*AO* *6-5-2*  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Robin U. Roberts et al.

Serial No.: 09/929,031

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INFORMATION DISCLOSURE STATEMENT Technology Center 2600

Commissioner for Patents  
Washington, D.C. 20231

Sir:

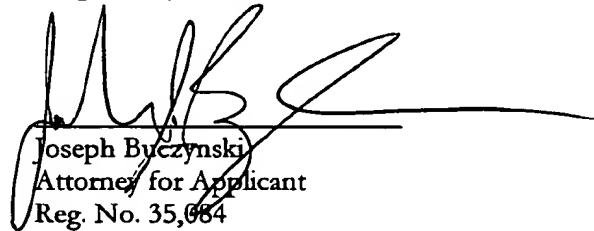
In accordance with 37 C.F.R. §§ 1.56 and 1.97-1.98, Applicants hereby transmit copies of the documents listed in the attached Form PTO-1449, which may be deemed material to the examination of the above-identified application.

All documents, with the exception of French Patent FR2683326, are in English and require no statement of relevance. Regarding French Patent FR2683326, an English abstract is provided as a brief statement of relevance to the above identified Application as required under 37 C.F.R. § 1.98. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(b) is required.

The Examiner is requested to consider the attached documents in connection with the above-identified application and to return a copy of Form PTO-1449 to the Applicants with the Examiner's initials in the spaces provided.

Submission of this Information Disclosure Statement does not constitute an admission by the Applicants as to the materiality of the attached documents to the application, nor do the Applicants waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate. Furthermore, the Examiner is asked to consider the Industry Standard Documents (i.e. the IEEE, RFC and TIA/EIA Standards) referenced in the background of the above identified Application. Printed copies of these standards have not been included to minimize the existing volume of reference material provided but appear to be available online. If copies are required, please contact the Attorney listed below.

Respectfully submitted,

  
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Dated: May 31, 2002



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)	ATTY. DOCKET NO. 41744 APPLICANT Robin U. Roberts et al. FILING DATE August 15, 2001	SERIAL NO. 09/929,031 GROUP 266
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## U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-class	Filed Date
B.P.						
B.P.	6,349,210	02/19/02	Li	455	450	11/03/00
B.P.	6,349,091	02/19/02	Li	370	238	11/07/00
B.P.	6,327,300	12/04/01	Souissi et al.	375	219	10/25/99
B.P.	6,304,556	10/16/01	Haas	370	254	08/24/98
B.P.	6,285,892	09/04/01	Hulyalkar	455	574	11/24/98
B.P.	6,275,707	08/14/01	Reed et al.	455	456	10/08/99
B.P.	6,249,516	06/19/01	Brownrigg et al.	370	338	01/27/00
B.P.	6,246,875	06/12/01	Seazholtz et al.	455	432	03/26/99
B.P.	6,240,294	05/29/01	Hamilton et al.	455	456	05/30/97
B.P.	6,223,240	04/24/01	Odenwald et al.	710	129	01/31/00
B.P.	6,208,870	03/27/01	Lorello et al.	455	466	06/01/99
B.P.	6,192,230	02/20/01	Van Bokhorst et al.	455	343	09/27/93
B.P.	6,192,053	02/20/01	Angelico et al.	370	448	09/07/95
B.P.	6,178,337	01/23/01	Spartz et al.	455	561	06/19/97
B.P.	6,163,699	12/19/00	Naor et al.	455	453	09/15/97
B.P.	6,147,975	11/14/00	Bowman-Amuah	370	252	06/02/99
B.P.	6,132,306	10/17/00	Trompower	453	11.1	03/29/96
B.P.	6,130,881	10/10/00	Stillier et al.	370	238	04/20/98
B.P.	6,122,690	09/19/00	Nannetti et al.	710	102	04/17/98
B.P.	6,115,580	09/05/00	Chuprun et al.	455	1	09/08/98
B.P.	6,108,738	08/22/00	Chambers et al.	710	113	06/10/97
B.P.	6,104,712	08/15/00	Robert et al.	370	389	02/22/99
B.P.	6,078,566	06/20/00	Kikinis	370	286	04/28/98
B.P.	6,067,291	05/23/00	Kammerman et al.	370	338	09/23/97
B.P.	6,064,626	05/16/00	Stevens	365	233	07/31/98
B.P.	6,052,752	04/18/00	Kwon	710	126	11/14/96
B.P.	6,052,594	04/18/00	Chuang et al.	455	450	04/30/97
B.P.	6,047,330	04/04/00	Stracke Jr.	709	238	01/20/98
B.P.	6,044,062	03/28/00	Brownrigg et al.	370	238	12/06/96
B.P.	6,034,542	03/07/00	Ridgeway	326	39	10/14/97
B.P.	6,029,217	02/22/00	Arimilli et al.	710	107	10/03/94
B.P.	6,028,853	02/22/00	Haartsen	370	338	06/06/97
B.P.	5,991,279	12/23/99	Haugli et al.	370	311	12/04/96
B.P.	5,987,033	11/16/99	Boer et al.	370	445	09/08/97
B.P.	5,987,011	11/16/99	Toh	370	331	08/30/96
B.P.	5,943,322	08/24/99	Mayor et al.	370	280	04/24/96
B.P.	5,936,953	08/10/99	Simmons	370	364	12/18/97

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)	ATTY. DOCKET NO. 41744	SERIAL NO. 09/929,03
	APPLICANT Robin U. Roberts et al.	
	FILING DATE August 15, 2001	GROUP 2661

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U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
B.P.						
B.P.	5,909,651	06/01/99	Chander et al.	455	466	05/05/97
B.P.	5,903,559	05/11/99	Acharya et al.	370	355	12/20/96
B.P.	5,896,561	04/20/99	Schrader et al.	455	67.1	12/23/96
B.P.	5,886,992	03/23/99	Raatikainen et al.	370	410	04/15/97
B.P.	5,881,372	03/09/99	Kruys	455	113	12/01/95
B.P.	5,881,095	03/09/99	Cadd	375	202	05/01/97
B.P.	5,877,724	03/03/99	Davis	342	357	03/25/97
B.P.	5,870,350	02/09/99	Bertin et al.	365	233	05/21/97
B.P.	5,857,084	01/05/99	Klein	395	309	10/02/96
B.P.	5,845,097	12/01/98	Kang et al.	395	297	06/03/96
B.P.	5,844,905	12/01/98	McKay et al.	370	443	07/09/96
B.P.	5,822,309	10/13/98	Ayanoglu et al.	370	315	06/15/95
B.P.	5,809,518	09/15/98	Lee	711	115	05/20/96
B.P.	5,805,977	09/08/98	Hill et al.	455	31.3	04/01/96
B.P.	5,805,842	09/08/98	Nagarajet al.	395	306	09/26/95
B.P.	5,805,593	09/08/98	Busche	370	396	09/26/95
B.P.	5,796,741	08/18/98	Saito et al.	370	439	03/05/96
B.P.	5,796,732	08/18/98	Mazzola et al.	370	362	03/28/96
B.P.	5,794,154	08/11/98	Bar-On et al.	455	509	07/26/96
B.P.	5,787,080	07/28/98	Hulyalkar et al.	370	348	06/03/96
B.P.	5,781,540	07/14/98	Malcolm et al.	370	321	06/30/95
B.P.	5,774,876	06/30/98	Wooley et al.	705	28	06/26/96
B.P.	5,745,483	04/28/98	Nakagawa et al.	370	335	09/29/95
B.P.	5,717,689	02/10/98	Ayanoglu	370	349	10/10/95
B.P.	5,706,428	01/06/98	Boer et al.	395	200	03/14/96
B.P.	5,701,294	12/23/97	Ward et al.	370	252	10/02/95
B.P.	5,696,903	12/09/97	Mahany	395	200.58	04/29/94
B.P.	5,687,194	11/11/97	Paneth et al.	375	283	04/22/93
B.P.	5,684,794	11/04/97	Lopez et al.	370	337	01/25/96
B.P.	5,680,392	10/21/97	Semaan	370	261	01/16/96
B.P.	5,652,751	07/29/97	Sharony	370	227	03/26/96
B.P.	5,644,576	07/01/97	Bauchot et al.	370	437	05/16/95
B.P.	5,631,897	05/20/97	Pacheco et al.	370	237	10/01/93
B.P.	5,627,976	05/06/97	McFarland et al.	395	308	03/20/95
B.P.	5,623,495	04/22/97	Eng et al.	370	397	06/15/95
B.P.	5,621,732	04/15/97	Osawa	370	79	04/18/95
B.P.	5,618,045	04/08/97	Kagan et al.	463	40	02/08/95
B.P.	5,615,212	03/25/97	Ruszczyk et al.	370	433	09/11/95



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.

41744

SERIAL NO.

09/929,031

APPLICANT

Robin U. Roberts et al.

FILING DATE

August 15, 2001

GROUP

2661

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U.S. Patent Documents

	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
B.P.	5,572,528	11/05/96	Shuen	370	85.13	03/20/95
B.P.	5,555,540	09/10/96	Radke	370	16.1	02/17/95
B.P.	5,555,425	09/10/96	Zeller et al.	395	800	03/07/90
B.P.	5,517,491	05/14/96	Nanni et al.	370	29	05/05/95
B.P.	5,502,722	03/26/96	Fulghum	370	69.1	08/01/94
B.P.	5,424,747	06/13/95	Chazelas	342	70	04/09/93
B.P.	5,412,654	05/02/95	Perkins	370	94.1	01/10/94
B.P.	5,392,450	02/21/95	Nossen	455	12.1	01/08/92
B.P.	5,317,566	05/31/94	Joshi	370	60	08/18/93
B.P.	5,241,542	08/31/93	Natarajan et al.	370	95.3	08/23/91
B.P.	5,233,604	08/03/93	Ahmadi et al.	370	60	04/28/92
B.P.	5,231,634	07/27/93	Giles et al.	370	95.1	12/18/91
B.P.	5,068,916	11/26/91	Harrison et al.	455	39	10/29/90
B.P.	5,034,961	07/23/91	Adams	375	130	06/03/88
B.P.	4,910,521	03/20/90	Mellon	342	45	08/03/31
B.P.	4,747,130	05/24/88	Ho	379	269	12/17/85
B.P.	4,742,357	05/03/88	Rackley	342	457	09/17/86
B.P.	4,736,371	04/05/88	Tejima et al.	370	95	12/29/86
B.P.	4,617,656	10/14/86	Kobayashi et al.	370	74	01/02/86
B.P.	4,494,192	01/15/85	Lew et al.	364	200	07/21/82

Published U.S. Patent Application

	Pub. No.	Pub. Date	Patentee	Class	Sub-class	Filing Date
	2001/0053699	12/20/01	McCrady et al.	455	513	02/06/01

Foreign Patent Documents or Foreign Patent Applications

	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation
						Yes No
B.P.	EP 0513841 A2	11/19/92	EPO			X
B.P.	EP 0513841 A3	11/19/92	EPO			X
B.P.	EP 0924890 A2	06/23/99	EPO			X
B.P.	EP 0627827 A2	12/07/94	EPO			X
B.P.	WO 9912302	03/11/99	WIPO			X
B.P.	WO 9839936	09/11/98	WIPO			X





Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)	ATTY. DOCKET NO. 41744  APPLICANT Robin U. Roberts et al.  FILING DATE August 15, 2001	SERIAL NO. 09/929,031     GROUP 2661
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### Foreign Patent Documents or Foreign Patent Applications

B.P.	WO 9724005	07/03/97	WIPO		X
B.P.	WO 9608884	03/21/96	WIPO		X
B.P.	WO 0235253	05/02/02	WIPO		X
B.P.	WO 0137483	05/25/01	WIPO		X
B.P.	WO 0137482	05/25/01	WIPO		X
B.P.	WO 0137481	05/25/01	WIPO		X
B.P.	WO 0135567	05/17/01	WIPO		X
B.P.	WO 0133770	05/10/01	WIPO		X
B.P.	WO 0110154	02/08/01	WIPO		X
B.P.	WO 0034932	06/15/00	WIPO		X
B.P.	CA 2132180	03/16/96	Canada		X
B.P.	FR 2683326	07/05/93	France		X

### Other Documents (including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
B.P.		Wong et al., "Soft Handoffs in CDMA Mobile Systems", December 1997, IEEE Personal Communications
B.P.		Wong et al., "A Pattern Recognition System for Handoff Algorithms", July 2000, IEEE Journal on Selected Areas in Communications, vol.18, no. 7
B.P.		Andras G. Valko, "Cellular IP: A New Approach to Internet Host Mobility", January 1999, ACM Computer Communication Review
B.P.		Richard North, Dale Bryan and Dennis Baker, "Wireless Networked Radios: Comparison of Military, Commercial, and R&D Protocols", February 28-March 3, 1999, 2 <sup>nd</sup> Annual UCSD Conference on Wireless Communications, San Diego CA
B.P.		"OSPF Version 2", April 1998, Internet RFC/STD/FYI/BCP Archives
B.P.		Benjamin B. Peterson, Chris Kmiecik, Richard Hartnett, Patrick M. Thompson, Jose Mendoza and Hung Nguyen, "Spread Spectrum Indoor Geolocation", August 1998, Navigation: Journal of the Institute of Navigation, vol. 45, no. 2, summer 1998
B.P.		Josh Broch, David A. Maltz, David B. Johnson, Yih-Chun Hu and Jorjeta Jetcheva, "A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols", October 25-30, 1998, Proceedings of the 4 <sup>th</sup> Annual ACM/IEEE International Conference on Mobile Computing and Networking
B.P.		C. David Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol"
B.P.		Chip Elliott and Bob Heile, "Self-Organizing, Self-Healing Wireless Networks", 2000 IEEE



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 41744	SERIAL NO. 09/929,031
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		FILING DATE August 15, 2001	GROUP 2661
<b>Other Documents (including Author, Title, Date, Pertinent Pages, etc.)</b>			
B.P		J.J. Garcia-Luna-Aceves and Asimakis Tzamaloukas, "Reversing the Collision-Avoidance Handshake in Wireless Networks"	
B.P		J.J. Garcia-Luna-Aceves and Marcelo Spohn, "Transmission-Efficient Routing in Wireless Networks Using Link-State Information"	
B.P		J.J. Garcia-Luna-Aceves and Ewerton L. Madruga, "The Core-Assisted Mesh Protocol", August 1999, IEEE Journal on Selected Areas in Communications, vol. 17, no. 8	
B.P		Ad Kamerman and Guido Aben, "Net Throughput with IEEE 802.11 Wireless LANs"	
B.P		J.R. McChesney and R.J. Saulitis, "Optimization of an Adaptive Link Control Protocol for Multimedia Packet Radio Networks"	
B.P		Ram Ramanathan and Regina Rosales-Hain, "Topology Control of Multihop Wireless Networks using Transmit Power Adjustment"	
B.P		Ram Ramanathan and Martha E. Steenstrup, "Hierarchically-Organized, Multihop Mobile Wireless Networks for Quality-of-Service Support"	
B.P		Martha E. Steenstrup, "Dynamic Multipoint Virtual Circuits for Multimedia Traffic in Multihop Mobile Wireless Networks"	
B.P		Zhenyu Tang and J.J. Garcia-Luna-Aceves, "Collision-Avoidance Transmission Scheduling for Ad-Hoc Networks"	
B.P		George Vardakas and Wendell Kishaba, "QoS Networking With Adaptive Link Control and Tactical Multi-Channel Software Radios"	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Brenda A. Pham 9/26/05